



	Tumors / Lesions
	- normal postale is divided into zones (porture thrank, dentral, transitional, perpheral)
	*
	(1) a look the theorem (all) of the control of (a)
	- Common abnormality, ises progressively with age (90% by the 8th decade)
	 Poliferation of bath stomal + epithelial elements -> enlagement of P -> UT obstruction * - Dathogenesis -> Analogens have control role in development 3-
	* does not occur in mole castraled before puberty, or in men with generic diseases blacking androgen activity ~~> long time go stares were astraled to prevent it
	* - DHT (olihydratestastaane) and agen deiced from testastaane by Six-reductase and it's metabolike 3α-androstonedial ->> major harmonal skinut for strand + glandular patification in men with NH
	> DHT binds to nuclear andreagen receptor -> Synthesis of DNA, RUA, GFS, other -> humanistic and structure inhibitors of tradmant of synchronolic all
	- Morphology 2-
	in the line, policethan glands of t, be above the decomponatum enlarged P (300 gm +)
	- Well-CirQumscribed nodules building from Qut surface in the inner (celrand + transitional) regions - Nodules maybe solid, or contain Cystic spaces
	- unettre is compressed (slit-like orifice) - Microscopically 2-
- NH → double loyes - Malignomey → Single	- hyperplashic blands lined by dual (darble) cell population - Central tall columnar estimation cells -> Cauching -> paperling pojections
lejor + prominent Aucleoli	Pripheral layer of Plattened basal cells *
	Adenomatous hyperplasia: Prostate: C/S of both lateral lobes of a very nodular prostate.
	nodules vary in size & are separated by delicate growish-white septa. II The spongy hyperplastic nodules have compressed the surrounding gland into a 'carpsule' (top).

- Clinical monefistations 3-
Occure in only to % of men with disease
lover ut abstruction (hesitoncy, internittent intrudicion of whom sustein while unialize)
- Complete UT abstruction> Darky bladd & distention> bileteral hydroneotropis + RF
- Leenen Becurency, andria ~~> bladder initation
- complete Obstantion + residual vice in bladder -> 1 UTT isk
2 Dostatic Carchona (Pca)
* - Most common visceral cancer in makes, 2nd (after lung ce) most common cause of concer related
deaths men > 50 yevs old
* _ latent Pca > clinically approval Pog
to Known Cause, but Clinical and experimental obscructions suggest hormones, genes, environment (pathogenesis):-
1 - Hormanes: (andregen Contribution for Par development Suggestion)
does not develop in males astrated before publicity
- arouth of more Pas can be inhibited by archiertainy or estrates administration (ex: DHT)
2. Hercoliton:
- 1 Pca isk in Rist degree relatives of Doents with Pca
3-Bacial:
- Sumptimetic more common, occurs at partiar ages in Anercan Blacks
4-Grenes:
- - Overexpression of 2 ETS family transciption factors (also involved in Evine Service)
* - intrited BRCA 1 and BRCA & mutations (copecially BRCA 2) -> 1 Par isk
men with lynch syndrome (HwPcc) -> 1 Pca isk
S- Envormental in Pluences :
- 1 isk in Certain induction settings and remedia differences
- marching Rom lounder de baby det gest gestals lounder
= dich tak is saind Ref. A set
*_ detected on the basis of eleveled plasma levels of postate specific unlinen PSA > 400/21
but hissue biogen is standard) to confirm Pos (because men without Pro have 1 PSA such

as NH and prostalihis cases)

- Grossly & - TO - BO % -> postale perferal zone - palpable as irregular hard noolules by PRE - Pca is less likely to cause Urethral obstruction than NH - Early Por -> hard, ill-defined, Subscopular masses, C/S -> firm gey-while to bellow lesions in Ritrehing echicoent glad - locally advanced Poa -> in Biltrate: (1) poiverthal zones (2) seminal vesicles (3) invade bloodder wall - Denonvilliers fascial prevents growth of Par posteriorly (infegrent rectum invation of Par) - metastasis to regional LN may occur early (external + internal iliac -> para-earlic) - Micoscopically :-- most on adenocontinomas with variable degrees of differentiation Small glands in Rithering adjacent strema in imagular haphazord fashion - due to scont strome Pa lie back to back - lined by single aubordial cell layer and absence of basal cell layer * - Conspicyous / prominent nucleol - 1 chaptasic degrees, irregular regged glandular structures, papillary or cibilitarm epithelium - extreme cases -> sheets of poorly differentiated cells - NH does not transform into Corcinome but NH + Concor may be present together - PIN (postalic intraepithelial reoplasia) has been suggested as pobable Por precusar > sub olivided into high and low grade pattons -> high-grade PIN shores molecular changes with invasive Pca - Par histologic greating through Gleason System (1-5 degrees) based on : (1) degree of glandular architecture (2) differentiation (3) nuclear anaptesis (4) mitatic activity - Clinically 2-1- Silent -> early stages, 10% of localized Pca are unexpectedly discoved (30% -> 30-40 years old) most begin in perpheral regions -> discoved duing routine PRE 2. Extensive disease may produce prostatism 3- Evidence of metastasis (uncommon mode of pesentation) (> Bone metastasis (axial skeleton) or common and may cause osteolytic or osteoblastic (more common) (presence in order mole -> advaced Par) lesions

T its important to differ have between high-grade postale aderacer crome (PAC) involving the when bladder and high-grade wortheliad corcinance (UC) in Billiching the postate (which are is the primar (main Concer ? -> markers are used) *_ Drostatic and crotheliand markers :-1- PSA positive for 3- GATA 3 positive Por uC PAC 2- NKX3.1 4 - high molecular weight Cytokrahir 5- P63 6- Hrombomodulin *_ postale specific arliger (PSA) and postale acid phosphotose (PAP) -> essist in weifying post-thic linege in Osses of metastatic concidence of unknown origin -> sensitivity & in poorly differentiated Corchomes PSA -> diagnosis of early PCA (servin level 4 ng/L -> upper normallimit) -> dragnostic value enhansed when used in conjuction with other procedures ex: (1) PRE (2) transrected surgepty (3) needle biopsy (most reliable) -> monitoring after treatment (1 after ablative therapy = recurring t metastasis) *__ Staging 2-Table 18-3 TNM Staging of Prostatic Adenocarcinoma: Status of Regional Lymph Nodes (N) NO -No Regional LN Metastases N1 T1a -Involvement of ≤5% of resected tissue -Metastasis In Regional LN T1b -Involvement of >5% of resected tissue T1c -Ca present on needle biopsy(following elevated PSA) Distant Metastases (M) le Or Visible C r Confined To Prostate M0 -No Distant Metastases T2a -Involvement of ≤50% of one lobe T2b -Involvement of >50% of one lobe, but unilateral M1 -Distant metastases present T2c -Involvement of both lobes Anatomic staging of Pca (by clinical examination, surgical exploration, T3a-Extracapsular extension radiographic imaging techniques) &, in some systems, & the histologic T3b-Seminal vesical invasion grade of the T & levels of T markers has an important role in the evaluation & treatment of Pca & correlate well with prognosis. Neck, Rectum, External Sphincter, Levator Muscles, Or Pelvic Floor Prostatic cancer stages pognosis :-- 90% TI or T2 Stages survive to years longer · Outlook for disseminated disease remains poor - Tratment Localized disease is usually to has a central role in the treatment of a Specifically, most Poa are anticogen semilities & to some degree by androgen ablation. & gickl or (ما رح تسال عنه) have all been used to control the growth of docerninated Prost ca



Vulvar Diseases 12 neoplashic non-neoplashic - less Common SCC (most-ly) Vulva has moist hair-bearing skin and delicate membrane l> prove to inflammations, and domatologic disorder caused by non-specific microbes Intense itching + Scratching -> exacerbate pimory Condition 5 most important forms of vulvar infection related to STD (in North America) 3-1- HPV (16, 13 -> certical concer) (6, 11 -> worts) 2- HSV (herpes ceritalis) -> resides 3- Gronococcal supportive inflammation 4- Suphilis 5- Canolida Vulvitis -> mostly impacts fendles if pegnant, or immune compremised, or is diabetic Contact Dermahilis * - most Common Cause of Vulvor Druntus reachive in Planination to exogenous stimulur - initiant contact demakitis -> to initiant-- Allergic contact dermakitis -> to allergen -> Both present as well-defined eythmatous weeping + Cr. f> quite spongiotic dermatitis Subacute demahilis with epithelial hyperplasia - Can occur in child wearing dipers 2> pee on themself -> allergy + fungal infection 2, solution : Change diper + Crean



() lichen Scherosus

- in postmenopousal women, eldely female
- Smooth white plaques + thinned out skin
- microscopically :- epidemis thiming
 - alisappearance of rele pegs
 - hydropic basal cell degeneration
- * not pre-malignant lesion, but 15% -> develop SCCa

(2) Lichen Simplex Chronicus

- end result of inflammatory Condition
- appears as leukoplakia ora
- Microscopically: - hyper Keratosis + hypergranulosis + ccanthosis
 - epithelim -> no alypia
 - ley Kocytic infiltration of demis
- * no î concer predesposition, but con be present at morgins of adjacent concer
- * Both lichen Schrosis + Lichen Simplex Chronicus
 - -> non-neoplashic epithelial disorchers
 - -> may co-exist in different neas
 - -> may appear grossly as depignented white patches (leukoplakia)

3) Condyloma Accuminatum

Tumors

	1) Condylomas -> Benign Tumors
	- 2 dishinchive biologic forms:
	1- Condyloma lata - Ollur in Secondary Syphilis - not Commonly seen today
	2- Condytoma acuminate
	- popullary - Anogenital wats (HPV 6, 11)
	multiple, red-pink to boun on Vulua "Hallmark : Koilogytosis
	more common Thot preconcerous by itself
	Neoplashic Vulvor Diseases
	U Vulvar Intraepithelial Neoplasia (UIN)
	- high grade UW = 11 or 111 (UW 111 -> Concinoma in situ)
	multiple foat, or Coexist with invasive lesion
	may be present for years before Concer progression
	genetic, immunologic, environmental influences determine the course
	is smoking, super-inflection of new HPV strains
(2) Carcinoma of the Vulua
	- Caused by HPV 16, 18 - > 60 years old
	- 3% of gentited track concers in women - 90% -> SCC
(3) Squemous Cell Garcinoma (SCC)
	1. Basaloid or poorly differentiated SCC ~> most common
	- younger women
	- HPV 16,18 related, lesions in Vagina or Cervix
	- poorly differentiated cells

2. Well - differentiated SCC ~> less Common
- Older women
* - Not HPV related -> So it lacks typical cytologic changes of VIN
- well to moderately differentiated cells
- adjuctent to lichen simplex or solutions
(4) Extramedullary Deget Disease
intraep: the lial Corcinana,
- non-demonstratable underlying Qa. (unlike breast)
presentation: red, scaly, Custed plague or inflammatory derinatosis
microscopically: - large malianant epitheliorch cells
- Orannular Cytoplasm
* - Cutoplasmic Vacules Containing mucin (PAS+)
when confined to epidermis -> Dersist years without invasion



Ugginal Neoplashic Diseases * Vaginal clear Cell Adeno Carcinoma - young women (late teens - early 20s) * - mothers took diethylskilbestrol during pregnoncy - sometimes do not oppear until 3rd - 4th decades - 1/3 -> amise in cervix

<u>Cervix</u>

- Baier to entrance of air and microflara, permits the escope of
menstrual flow + Copeble of dildring (Birth)
Cervicitis
- Predisposing factors
- trauma - high / Low eskagen levels
- Excessive servicion - alkaline medic of acciant and ding ourschion
- extremely common
- mucopurulent to purulent voginal discharge
- Cytologic examination of discharge -> WBC + in Planinology atypia of shed
epithelial celle ± mioroargaisms
* - Dost Crital bleeding> Scious> marbe Concer
- Endocerrical cancel (lined by endocorrical glands) + Ecloperrix (lined by squancus
epithelium) -> point of meeting "Squame columner junction" ~> HPV target print
1) Acute Cerucitis
- Child birth, STD (gonorhea)
- often Confused with Vaginitis
(2) Chronic Cervicitis
- pristent alischarge for 3 months
(- associated with :-
* - leukorrhea, destruction of shalified columnar epithelium of ectopic Cervix
= gowth of columnar epitholial endocervix -> cerucal easion (reddening of ectocervix)
- ectocolvix Granularity, Development of notathian cyst, Gralocolvical polyp
- if Caused by organisms -> move up into otrous + fallopion tubes -> peluic inflammatory
discase (PID) -> in factility and paitonities
- or - organisms can be passed to sexual partner -> suices complications

- Grossly nonspecific Corricities can be either :-
1 - Acute non-specific conjunts
- uncommon, limitted to postportum women
- Caused by Staphylococci or Streptococci
2 - Chronic non-specific Coucies
Common, nearly ubiguitous, eur-present enlisty
- Overgowth of regenerating squamous epithetium -> blocks endocernical gland aifrices
in transformation zone -> small Nabothian Cysts lined by mucus - secreting Columnar epithelian
lesions
- these were also associated with Chronic Cevicitis (*{)
Cervical Ectropion ~ Cervical erosion (not actual cell cosion accus)
- eversion of endocervix exposing columnar epithelium to upginal milieu
- normal physiological condition, seen in :-
- Cervical examination in cololescents
- pregnoncy
women taking estrogen Containing contracephives
- thought to be induced by i estrugen levels, does not represent metaplasia
2 Nabothian Cyst
- mucus- filled cyst
apper as fim bumps on Cervix suface
- Strahibied squamous epithelium of the ectocervix your over the simple columnar epithelium of the
endocervix
- Issue gowth -> block circical crypts -> trapping cricical micus inside the crypts
- resolve on their own, if occur with Chronic Corvicities -> underlying in Planmation cause must be
teated





*	(2) (Cervical Concer	
	-	most common -> scc ~> pr	ak incidence at 45 years (10-15 years after detection of their
			:cusu : (IN)
	~	Only reliable way to monitor dis	sease -> carfut follow - up + repeat biopses
		Grossly :-	
		- develop in transformation	an zone
		* - range from invisible m	hieroscopic for to visible exophytic (polyorich, infiltrating)
		penetrating underlying s	strains -> barrel Cervix (; clerkifiech by putpolien)
		- extension into poiemetr	ial soft hissue> fix uterus to pelvic structures
		- Spread to pelvic IN a	determined by :- (1) depth $(<1\times \rightarrow \tau < 3_{mm}, >10\times \rightarrow \tau > 5_{mm})$
			(2) presence of appilling lympholic invasion
		- invesion to edjecent structu	res + distant metestasis -> late in disease
		- Graded 1-3 -> based on a	cellular differentiation / staged 1-4-> depending on clinical spread
	-	Clinical aspects :-	
		- pop smear 1 proportion	of early dragnosis (stage 1)
*		- most or alicensed in prein	unsive phase, appear as white acros on adjoiscopy
- Post Coit -> theate	ich bleeding ich as Cerviceul	- Advanced ases seen in th	(1) never had a pap smear
(ex: ; Post merepa	infection)		(2) waited many years since prior smear
	d as endometrial - hill power	Cause nexpected ->	unginal bleeding, leukarhea, dyspareunic (painful coitus), dysuria,
other	u se		post coital bleeding
		· Staging 8-	- Treatment :- (ما رح تسال عنه)
		Stage 0 1 F States 0 V Extent of Carchene Contract Designs Designs that the states to cannot beyond contract to period excum o	· CIN -> laser or one biopsy
		evid or token view of metallos 103 of kepha wayto 1-your 100% 85% 65% 35% 7%	· invosive -> surgical exersion
		samhal Slage at Unione 47% 28% 21% Notice 4% essentation canty with val	- "Hognosis (5 year survival rate):-
		Mar Convert	- Stage O (preinvasive) -> 100%
		Mannel Da Donewich	Stage 1 -> 85% Stage 3 -> 35%
			Stage 2 -> 65%. Stage 4 -> 7%.
		evention :-	
Most effective		- HPV DACCAR	
method		Detection of pieceous and the	reconcends (Cone Diopsy or 1958, Uppoisonion /



- Cnhibichics
- Dilation and Curettage (D&C)

Adenomyosis (gowth of based layer of endometrism down to myometrism) - Eclometrial strome, glands (both) embedded in myometrium - dejucid from stratum besalls, no cyclical bleeding - Thick uteine walk , enlarged uterus - Produce: - - Postmenstruel menomhagia - Pelvic Pain - dysmemorher (parful menses) ~> enlarged utaws -> exagginated contractions (4) Enclometriosis (presence of endometrial glands autside the uteus) in 10% of women in reproductive years, 50% of women with infoliality *_ Dysmenorchea, peluic poin, peluic blood-billed moss (Chocolate Cyst) - mukfocal mulkple hissies in pelvis (avaies, pouch of Dauglas, utime ligements, types, rectourginal septum) distant sites -> Umbilicus, LN, lungs ... etc - Pathogenesis (3 theories) 8-1 - Regurgitation Theory (most excepted) - menstrual backflow through tubes and implantation 2- Metaphashic Theory - Grobometrial differentiation of coelonic epithelium 3- Vascular or lymphetic Dissemination Theory - explain extrapeluic ar intranadal implants - Grossly :-* - functioning endometrium which undergoes cyclic bleeding blood collects in abnormal foci (red. blue to yellow - bown nodules / inplants) Contains functionalis enclose trium -> undregoes cyclic bleeding. *- large blood- filled ysts ----> Chocolate cysts *- leakage + organization of blooch ----> wickespreach Brossis - Concequences :- - infertility - distortion of ouries - Sealing of tubal Rimbriated ends - Ribrosis * - Dicensis (had 2 of 3) 3- (1) endometrial stroma (CD-10+) "> 3 needed for conformation (2) enclomentical grand (3) hemosidein pigment



> PALH - COEIN System

-> used to classify causes of abnormal

bleeding in non-pregnant premerapausal

(4) Postmenopausal bleeding.

ca, leiomyomas, & endometritis.

lesions, such as polyps, cervicitis, or ca.

(5) Common causes include endometrial polyps, hyperplasia,

(6) Vaginal bleeding may also be due to cervical & vagina

	La comencia de la com
	6 Dysfunctional Uteine Bleeding (abnormal bleeding in absence of well-defined organic lesion)
	- due to hormonal imblalance
	- 4 major Causes 5-
	1 - Feilure of Ovuletion
	- with any dysfunction of hypothelemic-pituitany axis, advenal, thyroid
	with functioning cuorian lesion (ex: granulosa cell timer) \rightarrow produce excess estrogen
	- malnutition, "Obesity, Sever physical / emotional stress, debilitering disease
	- leads to excess estagen related to pagestone -> endometrium prolification
	not followed by namal secretary phase
	- Godometrium shows scant strains requiring progestrone for support
	- poorly supported evolution -> perhad collapse -> rupting spiral articles -> blendi
- Obesity -> Pat celeases estagen Sadipose hissue processes Sturid precesses into estagons	



	Tumors
*	Tumors of the Godometrium
	D Benjon Endometrial Polyps
	- Sessile or pedunculated, Cystically dilated endometrial glands, Small muscular atries,
	monoclonal stronal cells with cytogenic recrangement at Gp 21 -> neoplastic
	Component of polyp - no isk for endometrial Oncer
	3 Enclometrial Cercinoma ~> most common female genital tract ancer
	- Common 50.60 year ald (uncommon < 40) - Anise in one of 2 settings :- (1) permenopousal women with estrogen excess -> Endometriaid
*	(2) older women with endlometrial atrophy -> Serous Corcinama 1 - Grademetriaid Carcinama (similar to normal endlometrium)
RISK FACTORS ENDOMETRIAL C	FOR Risk factors (i estagen): Obesity - prolonged estagen replacement therapy ANCER - inferbility - estagen secreting Quarian tumors
(rage 12) - Ag Late menopsuse - Co (rage 52) - Sa - Infertitity or null parous - the - Oberty - Trestment with tamoviter for - Re- tressed cancer - or - - Sector subjectment - Pictor	ng over the de constant werner Descention of the risk factors: - DM - HTN methy nonconstant methy nonconstant methy and the second of the
therapy (ERT) after per tremopulate • Diet high in extend fat	- Dothogenesis 3
	- 2 nd most common conceressociated with HPNCC -> intrevied gove defect in DNA
	Mismatch repair gold -> mismatch repair gene + PTEN -> early events occurring in the
	Progression from abnormal prolification to atypical hyperplasia * - (ynch Syndrome -> 60% Uferhime risk endometrical corcinon a
	- Grossly 3 Fungaling or inflitative, infilkating mysmetrium
	- CSemble normal enclometrium (nucinous to ciliated to squamous to anenosquemous differentiation)

- Grading: 1-111, Staging: 1-> confined to corpus / 11-> Cerviced involvement / 111 -> beyond uterus, confined within the peluis N -> distant metastasis or other userial involvement 2 - Serous Corcinoma * - no relation with endometrial hyporplasia, not hormone dependent (1) arises in atrophy sometimes in setting of an endometrial polyp (2) mutations in DNA mismatch repair + PTEN -> rare * (3) all cases have mutation in PS3 - Crossly: - - small popillae, greater cytological otypia - not graded - poorly differentiated, particulary aggressive - Papillary serves arcinome is strongly dependent on tomor extent, determined by operative Staging + pritoneal cyblogy (very small tomar may spread via follopian tube to pritoneal cavity) * - first clinical presentation for all Endometrial concers \rightarrow integrater bleeding (due to easion, and T surface ulceration) - prognosis depends on stage 5 yer suriual -> Stage 1 -> 90%, Stage 11, 1V -> 20% Tumors of Myometrium (1) Leomyoma (Ribrords) (benign smooth muscle cells tumor) - most common benign tumors in females (30-50% reproductive life) - Estrogen - dependent (Shrink after meopouse) - Grossly: - Not encepsulated, sharply Circumscibed * - him grey-white mosses - most often multiple (shall / massive) - location: intranural / submucosal / subserval (may develop tenharage, cystic changes, Calc: Ricchion) - larger turner -> ischemic necrosis (red degeneration) -> sever prin, hemborrage, Cyshic softening 2> After menopouse -> densely collegenous and coldified

- Clinically: - Asymptomatic or symptomatic
* - never transform to sorcome, and does not it malignency isk
- Cragnette shoped nucle:
Conse de novo, sourrey rumars
UTOSSIY: - Dulk masses intitrating uteine well
polypoid lesions
- Soft, hemorrhagic, necolic, infillidive borders
- Diagnosis : - Coagulative necrosis - Cytologic atypia - mitotic activity
- Common to recur and metastasize, 5 year survival rate -> 40%.